



**Utah Division of Air Quality
New Source Review Section**

**Form 7
Condenser**

Date _____
Company _____
Site/Source _____

Equipment Information			
1. Provide diagram of condenser:		2. Manufacturer: _____ Model no.: _____	
3. Heat exchange area (ft ³): _____			
Contaminant Inlet Conditions			
4. Name of contaminant:		5. Pollutant rate: Inlet: _____ lbs/hr Outlet: _____ lbs/hr	
Average Operation		Maximum Operation	
6. Coolant flow rate per condenser: Water _____ gpm or Air _____ scfm Other: Type _____ Flow rate _____		11. Coolant flow rate per condenser: Water _____ gpm or Air _____ scfm Other: Type _____ Flow rate _____	
7. Gas flow rate: _____ scfm		12. Gas flow rate: _____ scfm	
8. Coolant temperature: Inlet: _____ °F Outlet: _____ °F	9. Gas temperature: Inlet: _____ °F Outlet: _____ °F	13. Coolant temperature: Inlet: _____ °F Outlet: _____ °F	14. Gas temperature: Inlet: _____ °F Outlet: _____ °F
10. Efficiency of condenser: _____ %		15. Efficiency of condenser: _____ %	
Emissions Calculations (PTE)			
16. Calculated emissions for this device PM ₁₀ _____ Lbs/hr _____ Tons/yr NO _x _____ Lbs/hr _____ Tons/yr SO _x _____ Lbs/hr _____ Tons/yr VOC _____ Lbs/hr _____ Tons/yr HAPs _____ Lbs/hr (speciate) _____ Tons/yr (speciate) Submit calculations as an appendix.			

- NOTE:
1. **Submit this form in conjunction with Form 1 and Form 2.**
 2. Call the Division of Air Quality (DAQ) at **(801) 536-4000** if you have problems or questions in filling out this form. Ask to speak with a New Source Review engineer. We will be glad to help!

Instructions

1. Supply a diagram showing the features of the equipment.
2. Specify the manufacturer and model number of the equipment.
3. Supply the amount of heat exchange area in cubic feet.
4. List the contaminants found in the gas stream (use additional sheets if necessary).
5. Indicate how much pollutant is in the inlet and outlet gas stream in pounds per hour.
6. Indicate the coolant flow rate per condenser during normal operation. (List the fluid if not water or air)
7. Indicate the gas flow rate in standard cubic feet per minute during normal operation.
8. Supply the inlet and outlet coolant temperatures during normal operation.
9. Supply the inlet and outlet gas stream temperatures during normal operation.
10. Indicate the efficiency of the condenser during normal operation.
11. Indicate the coolant flow rate per condenser during maximum operation. (List the fluid if not water or air)
12. Indicate the gas flow rate in standard cubic feet per minute during maximum operation.
13. Supply the inlet and outlet coolant temperatures during maximum operation.
14. Supply the inlet and outlet gas stream temperatures during maximum operation..
15. Indicate the efficiency of the condenser during maximum operation.
16. Supply calculations for all criteria pollutants and HAPs. Use AP42 or Manufacturers data to complete your calculations.

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revised 7/19/02